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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/922,988	08/03/2001	Bernt Karlsson	34646-00454	8442

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ERICSSON INC.
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EXAMINER	
NGUYEN, JOSEPH D	

ART UNIT	PAPER NUMBER
2683	9

DATE MAILED: 05/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/922,988	Applicant(s) KARLSSON ET AL.	
	Examiner Joseph D Nguyen	Art Unit 2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *03 August 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-45* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-45* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *03 August 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claim 14 is objected to because of the following informalities:

Regarding claim 14, in line 2, the abbreviation "ISUP" needs to be defined. Appropriate correction is required.

Regarding claim 35, in line 2, the abbreviation "ISUP" needs to be defined. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Emery et al. (5,758,281).

Regarding claim 1, Emery et al. discloses a method of locating a mobile terminal in a mobile communications network (abstract), the method comprising the steps of:

a) detecting when said mobile terminal has entered a new roaming area (abstract, fig. 3, col. 20 lines 14-24), said new roaming area being comprised of two or

more location areas (fig. 2, col. 13 lines 15-28), each of said two or more location areas being comprised of one or more cells (col. 10 lines 33-42);

b) obtaining roaming area information of said new roaming area (col. 19 line 27 thru col. 20 line 25);

c) storing said roaming area information in a database (col. 16 lines 24-34, and col. 19 lines 14-60); and

d) primary paging said mobile terminal within said new roaming area using said roaming area information stored in said database (fig. 5A, col. 5 lines 23-58).

Regarding claim 2, Emery et al. further discloses the method according to claim 1, wherein said new roaming area is within a current mobile switching center service area (abstract, fig. 3-4, col. 5 lines 23-58).

Regarding claim 3, Emery et al. further discloses the method according to claim 2, wherein said step of storing includes sending a update subscriber data message having said roaming area information to said database (abstract, fig. 4).

Regarding claim 4, Emery et al. further discloses the method according to claim 3, wherein said update subscriber data message is based on a mobile applications protocol (col. 15 lines 23-59).

Regarding claim 5, Emery et al. further discloses the method according to claim 3, further comprising receiving an update subscriber acknowledgment or negative acknowledgment message from said database (fig. 5A-5C, col. 26 lines 10-28).

Regarding claim 6, Emery et al. further discloses the method according to claim 1, wherein said new roaming area is within a new mobile switching center service area (col. 4 line 64 thru col. 5 line 58).

Regarding claim 7, Emery et al. further discloses the method according to claim 6, wherein said step of storing includes sending a subscriber data request message having said roaming area information to said database (abstract, fig. 1, col. 5 lines 23-58).

Regarding claim 8, Emery et al. further discloses the method according to claim 7, wherein said subscriber data request message is based on a mobile applications protocol (col. 15 lines 23-59).

Regarding claim 9, Emery et al. further discloses the method according to claim 1, further comprising retrieving said stored roaming area information from said database (fig. 5A).

Regarding claim 10, Emery et al. further discloses the method according to claim 9, wherein said retrieving step includes receiving a subscriber data message including said stored roaming area information from said database (abstract, col. 5 lines 23-58).

Regarding claim 11, Emery et al. further discloses the method according to claim 10, wherein said subscriber data message is based on a mobile applications protocol (col. 15 lines 23-59).

Regarding claim 12, Emery et al. further discloses the method according to claim 9, wherein said retrieving step includes receiving a terminating call routing message

including said stored roaming area information from said database (abstract, fig. 5A-5C, col. 13 lines 6-60).

Regarding claim 13, Emery et al. further discloses the method according to claim 12, wherein said terminating call routing message is based on a mobile applications protocol (col. 15 lines 23-59).

Regarding claim 14, Emery et al. further discloses the method according to claim 12, wherein said roaming area information is subsequently included in an initial address message of an ISUP message (col. 13 lines 15-47, col. 19 lines 14-60).

Regarding claim 15, Emery et al. further discloses the method according to claim 1, wherein said roaming area information includes a roaming area identity (col. 5 lines 23-44, and col. 19 line 27 thru col. 22 line 21).

Regarding claim 16, Emery et al. further discloses the method according to claim 1, wherein said roaming area information includes a location area identity (col. 19 line 27 thru col. 22 line 21).

Regarding claim 17, Emery et al. further discloses the method according to claim 1, wherein said database includes a home location register (abstract).

Regarding claim 18, Emery et al. further discloses the method according to claim 1, wherein said database includes a guest location register (VLR) (col. 21 line 66 thru col. 22 line 21).

Regarding claim 19, Emery et al. further discloses the method according to claim 1, wherein said database includes a mobile switching center/visitor location register (col. 5 lines 23-58, and col. 21 line 66 thru col. 22 line 21).

Regarding claim 20, Emery et al. further discloses the method according to claim 1, wherein said step of detecting includes detecting when said mobile terminal enters a new location area, said new location area being associated with said new roaming area (col. 5 lines 23-59).

Regarding claim 21, Emery et al. further discloses the method according to claim 20, wherein said new location area is within the middle of said new roaming area (col. 20 lines 5-24).

Regarding claim 22, Emery et al. discloses a system for locating a mobile terminal in a mobile communications network (abstract, fig. 2), comprising:

a) a mobile switching center adapted to detect when said mobile terminal has entered a new roaming area and to obtain a roaming area information of said new roaming area (abstract, fig. 1-3, col. 5 lines 23-58, and col. 20 lines 14-24), said new roaming area being comprised of two or more location areas (fig. 2, col. 13 lines 15-28), each of said two or more location areas being comprised of one or more cells (col. 10 lines 33-42); and

b) a database connected to said mobile switching center and configured to store said roaming area information (col. 16 lines 24-34, and col. 19 lines 14-60);

c) wherein said mobile switching center is further adapted to issue a primary page for said mobile terminal within said new roaming area using said roaming area information stored in said database (fig. 5A, col. 5 lines 23-58).

Regarding claim 23, this claim is rejected for the same reason as set forth in claim 2.

Regarding claim 24, this claim is rejected for the same reason as set forth in claim 3.

Regarding claim 25, this claim is rejected for the same reason as set forth in claim 4.

Regarding claim 26, this claim is rejected for the same reason as set forth in claim 5.

Regarding claim 27, this claim is rejected for the same reason as set forth in claim 6.

Regarding claim 28, this claim is rejected for the same reason as set forth in claim 7.

Regarding claim 29, this claim is rejected for the same reason as set forth in claim 8.

Regarding claim 30, this claim is rejected for the same reason as set forth in claim 9.

Regarding claim 31, this claim is rejected for the same reason as set forth in claim 10.

Regarding claim 32, this claim is rejected for the same reason as set forth in claim 11.

Regarding claim 33, this claim is rejected for the same reason as set forth in claim 12.

Regarding claim 34, this claim is rejected for the same reason as set forth in claim 13.

Regarding claim 35, this claim is rejected for the same reason as set forth in claim 14.

Regarding claim 36, this claim is rejected for the same reason as set forth in claim 12.

Regarding claim 37, this claim is rejected for the same reason as set forth in claim 13.

Regarding claim 38, this claim is rejected for the same reason as set forth in claim 14.

Regarding claim 39, this claim is rejected for the same reason as set forth in claim 15.

Regarding claim 40, this claim is rejected for the same reason as set forth in claim 16.

Regarding claim 41, this claim is rejected for the same reason as set forth in claim 17.

Regarding claim 42, this claim is rejected for the same reason as set forth in claim 18.

Regarding claim 43, this claim is rejected for the same reason as set forth in claim 19.

Regarding claim 44, this claim is rejected for the same reason as set forth in claim 20.

Regarding claim 45, this claim is rejected for the same reason as set forth in claim 21.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

703 308-9051, (for formal communication intended for entry)

Or:

(703) 305-9509 (for informal or draft communications, please label "PROPOSED" OR "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA. Sixth floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D Nguyen whose telephone number is (703) 605-1301. The examiner can normally be reached on 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Joseph Nguyen

Apr. 26, 2004

WILLIAM TROST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600